



Utah Broadband Advisory Council

January 12, 2022

Overview and Purpose

Purpose

The ultimate goal of 5G Alliance Utah is to create business and educational opportunities in the wireless technology industry in the state of Utah. Our belief is that Utah is positioned to become an important player in the development and implementation of cutting-edge solutions, systems, and platforms in wireless broadband, mobile, Internet of Things (IoT), low-latency/high-reliability, and edge-computing technologies.

The Alliance works to bring together its member ecosystem to: discuss 5G technology roadmaps; identify gaps and opportunities that could be filled by Utah companies; and bring together companies with funding sources to build a wireless technology ecosystem in the state of Utah.

Partners

The Alliance seeks partner companies, organizations, and individuals from among:

- Utah Universities and Researchers
- 5G Technology Manufacturers
- Wireless Network and Internet Service Providers
- Utah Municipal, Education, and Healthcare Testbeds
- Utah IoT Manufacturers
- Utah RF Experts
- Edge Computing Developers
- Software Developers and Communities
- Utah State Governor's Office of Economic Opportunity
- Spectrum Owners
- Related Trade Associations
- Regional Venture and Angel Capital Resources

Outcomes

We expect positive outcomes of every Alliance interaction. These outcomes include connecting Utah businesses and organization to solve business and technical problems, educating Utah companies and government on development and implementation opportunities, highlighting research and development activities already occurring in Utah, developing strategies to fill gaps in the wireless 5G technology roadmap, informing policy decisions regarding implementation in communities and throughout the state, and connecting companies with state and private funding sources to develop their technology solutions.

Utah A Leader in the Wireless Industry



Powder Status: Up

Radio Equipment

Resource	Up	% Available
Base Stations	<div>8 / 9</div>	<div>57%</div>
Fixed Endpoints	<div>10 / 10</div>	<div>97%</div>
Massive MIMO Base Station	In Use	
Frequencies In Use	<div>2.5GHz</div>	

Wired Clusters

Resource	Up	% In Use
CloudLab Utah	Up	<div>75%</div>
Campus: Emulab	Up	<div>73%</div>
Downtown: Apt	Up	<div>82%</div>

PRIVATE WIRELESS

Virtual Events

Webinars

Whitepapers

Resource

Private Wireless

CBRS private network put to the test by Utah school district

by Martha DeGrasse | Jul 28, 2020 1:20pm

Utah A Leader in the Wireless Industry (Cont'd)

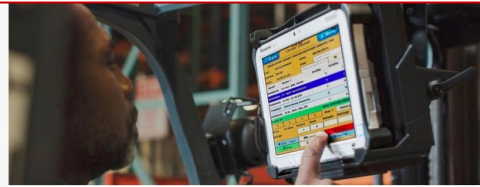


Private Wireless Network / CBRS Use Cases



Healthcare

Predictable quality for collaboration apps on smartphones assigned to clinical staff



Warehousing

Maximum uptime for digital data entry and push-to-talk voice on mobile devices



Venues

Network segmentation and clean spectrum for backstage staff operations



Higher Education

Outdoor wireless backhaul for fire alarms, video surveillance and more



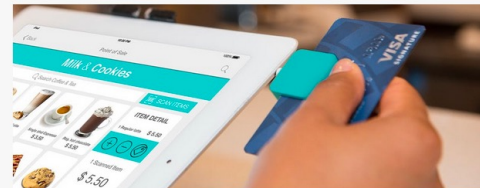
Manufacturing

Wireless connectivity for autonomous vehicles and autonomous robots



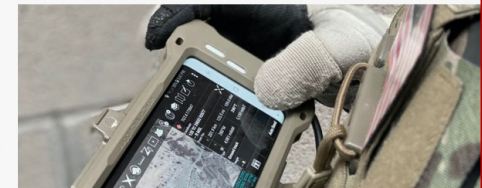
Industrial

Long range outdoor wireless for staff operations in challenging environments



Retail

Clean spectrum for mobile PoS on staff operated smartphones and tablets



Government

Network segmentation for tactical communications with SIM based security



Transportation Yards

Latency sensitive remote control of cranes via real-time video stream



K-12 Schools

Outdoor wireless backhaul to student homes and community services



Workplace

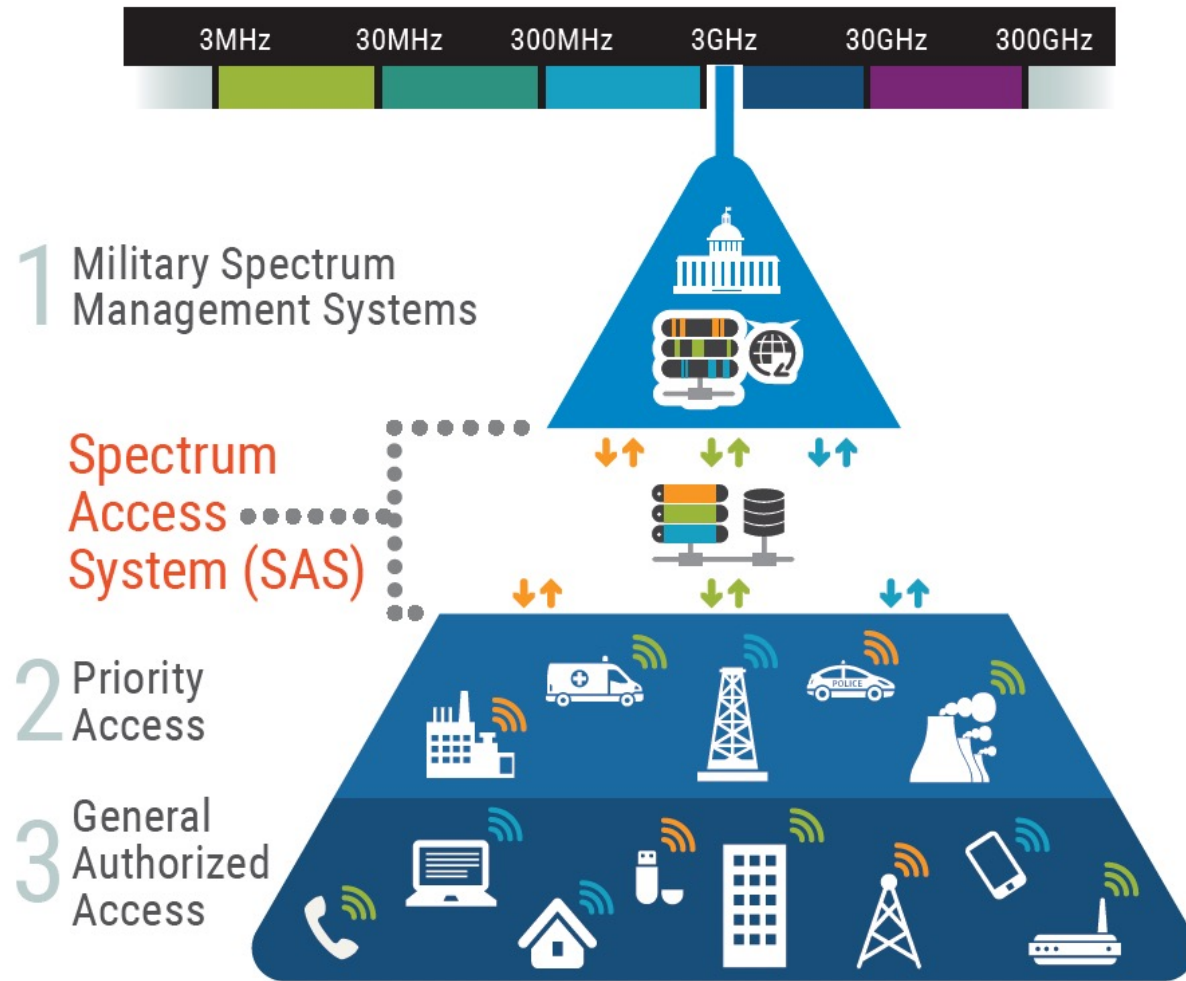
Device level security for smart building systems and outdoor IoT infrastructure



Mining

Predictable bandwidth for video streaming across very large areas

5GAU and CBRS Spectrum



5G Alliance Utah holds CBRS spectrum in:

- Washington County
- Iron County
- Wasatch County
- Bear Lake County, Idaho

Currently negotiating preferred pricing arrangements with spectrum holders in:

- Cache County
- Summit County
- Rich County
- Utah County

Ideas for partnership with Utah Broadband Center and Affiliates:

- Submit success stories to 5GAU's "Utah Wireless News" Newsletter
- Create awareness of new funding opportunities for Utah service providers
- Involve Utah companies in infrastructure projects for underserved / unserved markets
- Establish other "Industry Enabler" testbeds
 - Smart Cities or Freeway
 - Smart Factory Private LTE/5G
 - UAS West Desert
 - Open RAN Testbed
 - Utah's Inland Port
 - High Security
- Sponsor Private LTE/5G Installer course at SLCC
- Conduct Technology Roadmapping for Wireless Strategy and Investment
- How can 5GAU best help?



Thank You!

www.5gallianceutah.org

[5G Alliance Utah LinkedIn Page](#)